

WHAT IS CLAIMED IS:

1. A piezoelectric ceramic belt comprising a piezoelectric ceramic layer in the form of an endless belt having an upper surface and a lower surface with said layer further comprising:

a first set of circular or square electrodes formed on the upper surface of the belt with the electrodes arranged at regular intervals along the circumference of the belt and spaced a given distance from both side edges of the belt; and

a second set of circular or square electrodes formed on the lower surface of the belt aligned in position with said first set of electrodes on the upper surface of the belt;

wherein the electrodes of the first and second set are polarized by application of a high voltage to cause a piezoelectric effect in the ceramic layer between the electrodes in the first set acting as either positive or negative electrodes and the electrodes in the second set acting as counter electrodes.

2. A piezoelectric ceramic belt as set forth in Claim 1 wherein said electrodes in the first and second set on the upper and the lower surfaces of the belt are arranged in plural lines along the circumference of the belt.

3. A piezoelectric ceramic belt as set forth in claim 1 wherein each set of electrodes is formed by screen printing.

4. A piezoelectric ceramic belt as set forth in Claim 1 further comprising a wire formed on the upper surface of the piezoelectric ceramic belt for connecting the electrodes on the upper surface thereof, a wire formed on the lower surface of the piezoelectric ceramic belt for connecting the electrodes on the lower surface thereof and collector wires formed on the upper and the lower surfaces of the belt so that an electrical circuit is formed.

5. Multi-electrode piezoelectric ceramic sheet comprising:
a piezoelectric ceramic sheet having a piezoelectric ceramic layer,
a plurality of circular or square electrodes formed on both an upper surface and a lower surface of the piezoelectric ceramic sheet for aligning the electrodes on the upper and lower surfaces in position relative to each other,
and polarizing the electrodes by application of a high voltage to cause a piezoelectric effect in the ceramic layer between the electrodes on the upper surface acting as either positive or negative electrodes and the electrodes on the lower surface acting as counter electrodes.

6. Multi-electrode piezoelectric ceramic sheet as set forth in Claim 5 further comprising a wire formed on said upper surface of the piezoelectric ceramic sheet by printing such as screen printing and baking to connect to the electrodes on the upper surface, and a wire formed on said lower surface of the piezoelectric ceramic sheet by printing such as screen printing and baking to connect to the electrodes on the lower surface.